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FORM PTO-1390 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE (REV. 12-2004)		ATTORNEY'S DOCKET NUMBER 450100-04734
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371		U.S. APPLICATION NO. (If known see 37 C.F.R. 1.5) 10/525714
INTERNATIONAL APPLICATION NO. PCT/JP03/10523	INTERNATIONAL FILING DATE August 20, 2003	PRIORITY DOCUMENT NOS. 2002-239642, 2002-239643, 2002-294796 and 2002-300924 PRIORITY DATE CLAIMED August 20, August 20, October 8 and October 15, 2002
TITLE OF INVENTION HYBRIDIZATION DETECTOR AND SENSOR CHIP, AND METHOD OF HYBRIDIZATION		
APPLICANTS FOR DO/EO/US Yuji SEGAWA, Takayoshi MAMINE, Yasuhiro SAKAMOTO, Akira YOSHIO, Takuro YAMAMOTO		
Applicants herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<p>1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.</p> <p>2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.</p> <p>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</p> <p>4. <input type="checkbox"/> The US has been elected (Article 31).</p> <p>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))</p> <p>a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</p> <p>b. <input checked="" type="checkbox"/> has been communicated by the International Bureau.</p> <p>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</p> <p>6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).</p> <p>a. <input checked="" type="checkbox"/> is attached hereto.</p> <p>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</p> <p>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))</p> <p>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</p> <p>b. <input type="checkbox"/> have been communicated by the International Bureau.</p> <p>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</p> <p>d. <input checked="" type="checkbox"/> have not been made and will not be made.</p> <p>8. <input type="checkbox"/> A English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</p> <p>9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</p> <p>10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</p>		
Items 11 to 20 below concern document(s) or information included:		
<p>11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</p> <p>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</p> <p>13. <input checked="" type="checkbox"/> A preliminary amendment.</p> <p>14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</p> <p>15. <input type="checkbox"/> A substitute specification.</p> <p>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</p> <p>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825.</p> <p>18. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4).</p> <p>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</p> <p>20. <input checked="" type="checkbox"/> Other items or information:</p>		
PCT/ISA/210, 23 SHEETS OF DRAWINGS, CLAIM OF PRIORITY, REFERENCES FOR IDS, 1 PAGE ABSTRACT, PCT REQUEST		<p>EXPRESS MAIL</p> <p>Mailing Label Number: EV375019573US</p> <p>Date of Deposit: February 18, 2005</p> <p>I hereby certify that this paper or fee is being deposited with the United States Postal Service</p> <p>"Express Mail Post Office to Addressee" Service under 37 CFR 1.10 on the date indicated above and is addressed to: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.</p> <p><u>Adam Ahmed</u> (Typed or printed name of person mailing paper or fee)</p> <p><u>A. Ahmed</u> (Signature of person mailing paper or fee)</p>

U.S. APPLICATION NO. (If known, see 37 C.F.R. 1.51) 10/525714		INTERNATIONAL APPLICATION NO. PCT/JP03/10523		ATTORNEY'S DOCKET NO. 450100-04734	
21. The following fees are submitted					
<input checked="" type="checkbox"/>	a) Basic national fee.....			\$300.00	\$300.00
<input checked="" type="checkbox"/>	b) Examination fee.....			\$200.00	\$200.00
<input checked="" type="checkbox"/>	c) Search fee.....			\$500.00	\$500.00
TOTAL OF ABOVE CALCULATIONS				\$1,000.00	\$1,000.00
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.					
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)		Rate	
87 - 100 =	0 / 50 =			x \$250.00	\$0.00
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).					
CLAIMS	NUMBER FILED	NUMBER EXTRA		RATE	
Total Claims	31 - 20 =	11		x \$50.00	\$550.00
Independent Claims	8 - 3 =	5		x \$200.00	\$1,000.00
MULTIPLE DEPENDENT CLAIMS(S) (if applicable)				+ \$360.00	
TOTAL OF ABOVE CALCULATIONS =					\$2,550.00
<input type="checkbox"/> Applicant claims small entity status. See 37 C.F.R. 1.27. The fees indicated above are reduced by 1/2.					
SUBTOTAL =					\$2,550.00
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).					
TOTAL NATIONAL FEE =					\$2,550.00
Fee for recording the enclosed assignments (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property. +					
TOTAL FEES ENCLOSED =					\$2,550.00
					Amount to be refunded: \$
					Amount to be charged: \$
a. <input checked="" type="checkbox"/> A check in the amount of \$2,550.00 to cover the above fee is enclosed. b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed. c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-0320 . A duplicate copy of this sheet is enclosed. d. <input type="checkbox"/> Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.					
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.					
SEND ALL CORRESPONDENCE TO:					
William S. Frommer, Esq. Frommer Lawrence & Haug LLP 745 Fifth Avenue New York, New York 10151			 SIGNATURE William S. Frommer NAME		
Dated: February 18, 2005			25,506 REGISTRATION NUMBER		

FLH Ref. No.: 450100-04734

New Patent Application filed February 18, 2005 entitled:

**HYBRIDIZATION DETECTOR AND SENSOR CHIP, AND METHOD OF
HYBRIDIZATION**

Corresponding to PCT Application No. PCT/JP03/10523

Filed August 20, 2003

"Express Mail" mailing label number


EV375019573US

Date of Deposit

February 18, 2005

I hereby certify that this paper or fee, and a patent application and accompanying papers, are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and are addressed to the Commissioner for Patents, Mail Stop PCT, P.O. Box 1450, Alexandria, VA 22313-1450.

Adam Ahmed
(Typed or printed name of person mailing paper or fee)


(Signature of person mailing paper or fee)